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09/680,603	10/08/2000	Mark Yablonski	020431.0990	5144
7590	11/01/2005		EXAMINER	
Christopher W. Kennerly, Esq. Baker Botts L.L.P. Suite 600 2001 Ross Avenue Dallas, TX 75201-2980			WANG, JIN CHENG	
			ART UNIT	PAPER NUMBER
			2672	
DATE MAILED: 11/01/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/680,603	YABLONSKI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jin-Cheng Wang	2672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 15 August 2005.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 47-66 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 47-66 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

**DETAILED ACTION*****Response to Amendment***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicant's submission filed on 8/15/2005 has been entered. Claims 1-46 have been canceled. Claims 47-66 have been newly added. Claims 47-66 are pending in the application.

***Response to Arguments***

Applicant's arguments filed August 8, 2005 have been fully considered but are not found persuasive in view of the new ground(s) of rejection of the new claim 47.

Strasnich discloses cells to represent the salespersons' sales and teaches in figures 1-7 and column 1 and 16 axis relating to the parent member or a department cell in the department level being the parent of all the salespersons cells belonging to the department; column 7-8. He discloses that the children cells are the salespersons cells belonging to the department; see for example, column 7-8, lines 10-30 and the children salespersons cells representing the disaggregation of the department cell to which they belong. Strasnich teaches in column 7-8 and 19-22 a user selection of a cell representing the company's total sales (a company cell) and all the sub-cells or children cells representing the departments' sales (the department cells) wherein the department cells emanate from the company cell and also all the sub-cells or children cells

representing the salespersons' sales (the salesperson cells) wherein the salespersons' cells emanate from one of the departments' cells. Strasnick teaches warp navigation in which a navigator warps to the hierarchical dependents or children such as the department cells in the first level in response to the selection by the navigator from the company cell. Strasnick teaches warp navigation in which a navigator warps to the departments' cells in the first level in response to the selection by the navigator from the company cell. Strasnick thus teaches, in response to the user selection of the departments' cells in the first level for display of departments' sales data with respect to the x-axis by a warp navigator from the company cell, display on the graph the departments' sales data or departments' cells in the first level. Strasnick also teaches warp navigation in which a navigator warps to the salespersons' cells in the second level in response to the selection by the navigator from one of the departments' cells. Strasnick discloses, in response to a user selection of the second level for display of salespersons' sales data with respect to the x-axis from a department cell by the warp navigator, display on the graph the salespersons' sales data or the salespersons' cells in the second level.

However, it remains to see whether Strasnick expressly discloses the claim limitation of "axes" and hierarchies within the claim limitation of "a bottom layer hierarchy associated with the top layer hierarchies of the multi-dimensional axes data hierarchy".

However, Rao discloses the claim limitation of "axes" and "hierarchies" (e.g., Fig. 13-20 and column 5-11).

For example, Rao discloses in Figs. 13-20 and column 5-11 displaying a two-dimensional visual model on a physical medium representing portion of the data set, the visual model having dimensions of the data set represented as at least one hierarchical tree, detecting a user's

interaction with the data represented in the visual model, initiating an operation on the data set based on the detected user interaction with the data, the operation converting portions of the data set into the two-dimensional visual model and the at least one hierarchical tree is displayed with the visual model and includes a first dimension hierarchy associated with either a horizontal or a vertical axis. Rao further discloses initiating a select-slice operation that removes a selected dimension from the visual model and the select-slice operation being initiated by the user by pointing to a section of the dimension to be selected and quickly moving the pointing device in a predetermined direction and initiating a repeat-variable operation that causes values corresponding to selected keys of a dimension to be repeated in the visual model for each of the selected keys, initiating a demote/promote operation that changes the dimensionality of the visual model by moving a mark on an axis associated with a dimension. Rao further discloses each member of the first level or the second level being located at its corresponding first or second predetermined position along the supply chain data axis (Rao Figs. 13-20).

It would have been obvious to one of the ordinary skill in the art at the time of invention was made to have incorporated Rao's data visualization method because Strasnich implicitly discloses hierarchy being displayed on a ground plane of the information with respect to the x-axis and y-axis (See column 1 and 16-17). Strasnich implicitly discloses hierarchy being displayed on a ground plane of the information landscape with respect to the x-axis and y-axis wherein the X- axis of every display object is narrowed or expanded. The 2D plane or 3D box upon which the information objects are drawn has the X-dimension and Y-dimension or x-axis and y-axis as clearly taught by Strasnich in column 16-17. Strasnich discloses adjusting a width or height of a display of the information objects relative to the viewpoint of the user. Strasnich

discloses the x-axis being associated with the x dimension of the sales data, the x dimension or horizontal dimension for the x axis being associated with the sales data hierarchy having the parent levels and children levels displayed in the information landscape with the x-axis and y-axis of sales data for the x dimension or the horizontal dimension (see Figure 5B, column 6-8, 16-17, 20).

Moreover, Strasnick teaches in column 7-8 and 19-22 a user selection of a cell representing the company's total sales (a company cell) and all the sub-cells or children cells representing the departments' sales (the department cells) wherein the department cells emanate from the company cell and also all the sub-cells or children cells representing the salespersons' sales (the salesperson cells) wherein the salespersons' cells emanate from one of the departments' cells.

Strasnick teaches warp navigation in which a navigator warps to the hierarchical dependents or children such as the department cells in the first level in response to the selection by the navigator from the company cell. Strasnick teaches warp navigation in which a navigator warps to the departments' cells in the first level in response to the selection by the navigator from the company cell. Strasnick thus teaches, in response to the user selection of the departments' cells in the first level for display of departments' sales data with respect to the x-axis by a warp navigator from the company cell, display on the graph the departments' sales data or departments' cells in the first level.

Strasnick also teaches warp navigation in which a navigator warps to the salespersons' cells in the second level in response to the selection by the navigator from one of the departments' cells. Strasnick discloses, in response to a user selection of the second level for display of salespersons' sales data with respect to the x-axis from a department cell by the warp

navigator, display on the graph the salespersons' sales data or the salespersons' cells in the second level.

Therefore, Strasnick suggests the additional claim limitations set forth in the new claim 47.

One of the ordinary skill in the art is motivated to do this because this allows the multiple dimension visual model being used to clearly present the data set to the user as organized in multiple levels along the multiple axis with each member being labeled (Rao Figs. 13-20; Maguire Figs. 2-7 and Kahn Figs. 1A-6H).

#### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 47-66 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

For example, the base claim 47 recites the claim limitation, “a bottom layer hierarchy associated with the top layer hierarchies of the multi-dimensional axes data hierarchy.” A bottom layer is being associated with a plurality of the top layer hierarchies related to a plurality of the multi-dimensional axes data hierarchy. Whatever a “bottom layer” may be, it is associated with all of the top layer hierarchies of a plurality of the multi-dimensional axes data hierarchy – as opposed to, for example, a unique bottom layer being associated with each of the top layer hierarchies – resulting in a multitude of the top layer hierarchies located in the different multi-dimensional axis dimensions being associated with the same bottom layer. Therefore, the metes and bounds of the coverage of at least base claim 47 (55, and 63) cannot be ascertained.

To comply with the “written description” requirement of 35 U.S.C. 112, first paragraph, an applicant must convey with reasonable clarity to those skilled in the art that, as of the filling date sought, he or she was in possession of the invention. The invention is, for purposes of the “written description” inquiry, whatever is now claimed. Vas-Cath, Inc. v. Mahurkar, 935 F.2d 1555, 1563-64, 19 USPQ2d 1111, 1117 (Fed. Cir. 1991). For purposes of written description, one shows “possession” by descriptive means such as words, structures, figures, diagrams, and formulas that fully set forth the claimed invention. Lockwood v. American Airlines, Inc., 107 F.3d 1565, 1572, 41 USPQ2d 1961, 1966 (Fed. Cir. 1997). Such descriptive means cannot be found in the disclosure for the inventions of the base claim 47, 55 and 63.

Claims 48-54 depend upon the claim 47 and are rejected due to their dependency on the claim 47. The claims 56-62 depend upon the base claim 55 and are rejected due to their dependency on the claim 55. The claims 64-66 depend upon the base claim 63 and are rejected due to their dependency on the claim 63.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 31-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

For example, the base claim 47 recites the claim limitation, “a bottom layer hierarchy associated with the top layer hierarchies of the multi-dimensional axes data hierarchy.” A bottom layer is being associated with a plurality of the top layer hierarchies related to a plurality of the multi-dimensional axes data hierarchy. Whatever a “bottom layer” may be, it is associated with all of the top layer hierarchies of a plurality of the multi-dimensional axes data hierarchy – as opposed to, for example, a unique bottom layer being associated with each of the top layer hierarchies – resulting in a multitude of the top layer hierarchies located in the different multi-dimensional axis dimensions being associated with the same bottom layer. Therefore, the metes and bounds of the coverage of at least base claim 47 (55, and 63) cannot be ascertained. Applicant has thus failed to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 48-54 depend upon the claim 47 and are rejected due to their dependency on the claim 47. The claims 56-62 depend upon the base claim 55 and are rejected due to their

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dependency on the claim 55. The claims 64-66 depend upon the base claim 63 and are rejected due to their dependency on the claim 63.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 47-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strasnick et al. U.S. Pat. No. 5,861,885 (hereafter Strasnick) in view of Rao et al. U.S. Patent No. 6,628,312 (hereinafter Rao), Kahn U.S. Patent No. 5,461,708 (hereinafter Kahn) and Maguire, III et al. U.S. Patent No. 6,529,217 (hereinafter Maguire).

1. Re Claim 47, 55, 63:

Strasnick teaches a computer graphical user interface system (See the abstract; figure 13; column 6) comprising:

A database operable to store hierarchically organized data associated with a multi-dimensional hierarchy of data (column 7-8);

A multi-dimensional graphical user interface coupled to the database and capable of user interaction to provide a multi-dimensional user interactive graph (e.g., column 7 and 8) comprising:

A multi-dimensional axes data hierarchy (e.g., figures 1-7; column 1, 6-7 and 16) including a top layer hierarchy associated with a first axis dimension (e.g., departments or departments cells; see column 7-8), a top layer hierarchy associated with a second axis dimension (e.g., cells representing the departments' sales and axis has been taught in figures 1-7 and column 1 and 16); and a bottom layer hierarchy associated with the top layer hierarchies of the multi-dimensional axes data hierarchy; and a multi-dimensional value hierarchy associated with a function value of the multi-dimensional axes data hierarchy (e.g., *cells representing the salespersons' sales and axis has been taught in figures 1-7 and column 1 and 16 wherein the parent member being a department cell in the department level being the parent of all the salespersons cells belonging to the department; column 7-8*); and the children cells are the salespersons cells belonging to the department; see for example, column 7-8, lines 10-30 and the children salespersons cells representing the disaggregation of the department cell to which they belong. Strasnick teaches in column 7-8 and 19-22 a user selection of a cell representing the company's total sales (a company cell) and all the sub-cells or children cells representing the departments' sales (the department cells) wherein the department cells emanate from the company cell and also all the sub-cells or children cells representing the salespersons' sales (the salesperson cells) wherein the salespersons' cells emanate from one of the departments' cells. Strasnick teaches warp navigation in which a navigator warps to the hierarchical dependents or children such as the department cells in the first level in response to the selection by the

*navigator from the company cell. Strasnich teaches warp navigation in which a navigator warps to the departments' cells in the first level in response to the selection by the navigator from the company cell. Strasnich thus teaches, in response to the user selection of the departments' cells in the first level for display of departments' sales data with respect to the x-axis by a warp navigator from the company cell, display on the graph the departments' sales data or departments' cells in the first level. Strasnich also teaches warp navigation in which a navigator warps to the salespersons' cells in the second level in response to the selection by the navigator from one of the departments' cells. Strasnich discloses, in response to a user selection of the second level for display of salespersons' sales data with respect to the x-axis from a department cell by the warp navigator, display on the graph the salespersons' sales data or the salespersons' cells in the second level).*

- Examiner Notes:
- Strasnich discloses hierarchy being displayed on a ground plane of the information with respect to the x-axis and y-axis (See column 1 and 16-17). Strasnich discloses hierarchy being displayed on a ground plane of the information landscape with respect to the x-axis and y-axis wherein the X- axis of every display object is narrowed or expanded. The 2D plane or 3D box upon which the information objects are drawn has the X-dimension and Y-dimension or x-axis and y-axis as clearly taught by Strasnich in column 16-17.
- Strasnich discloses adjusting a width or height of a display of the information objects relative to the viewpoint of the user. Strasnich discloses the x-axis being associated

with the x dimension of the sales data, the x dimension or horizontal dimension for the x axis being associated with the sales data hierarchy having the parent levels and children levels displayed in the information landscape with the x-axis and y-axis of sales data for the x dimension or the horizontal dimension (see Figure 5B, column 6-8, 16-17, 20). Therefore, Strasnick reads on the claim limitation of “a first axis being associated with a first dimension of the supply chain data, the first dimension for the first axis being associated with a first predetermined hierarchical arrangement of supply chain data for the first dimension.”

However, it remains to see whether Strasnick expressly discloses the claim limitation of “axes” and hierarchies within the claim limitation of “a bottom layer hierarchy associated with the top layer hierarchies of the multi-dimensional axes data hierarchy”.

However, Rao discloses the claim limitation of “axes” and “hierarchies” (e.g., Fig. 13-20 and column 5-11).

For example, Rao discloses in Figs. 13-20 and column 5-11 displaying a two-dimensional visual model on a physical medium representing portion of the data set, the visual model having dimensions of the data set represented as at least one hierarchical tree, detecting a user’s interaction with the data represented in the visual model, initiating an operation on the data set based on the detected user interaction with the data, the operation converting portions of the data set into the two-dimensional visual model and the at least one hierarchical tree is displayed with the visual model and includes a first dimension hierarchy associated with either a horizontal or a vertical axis. Rao further discloses initiating a select-slice operation that removes a selected

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dimension from the visual model and the select-slice operation being initiated by the user by pointing to a section of the dimension to be selected and quickly moving the pointing device in a predetermined direction and initiating a repeat-variable operation that causes values corresponding to selected keys of a dimension to be repeated in the visual model for each of the selected keys, initiating a demote/promote operation that changes the dimensionality of the visual model by moving a mark on an axis associated with a dimension. Rao further discloses each member of the first level or the second level being located at its corresponding first or second predetermined position along the supply chain data axis (Rao Figs. 13-20).

It would have been obvious to one of the ordinary skill in the art at the time of invention was made to have incorporated Rao's data visualization method because Strasnich implicitly discloses hierarchy being displayed on a ground plane of the information with respect to the x-axis and y-axis (See column 1 and 16-17). Strasnich implicitly discloses hierarchy being displayed on a ground plane of the information landscape with respect to the x-axis and y-axis wherein the X- axis of every display object is narrowed or expanded. The 2D plane or 3D box upon which the information objects are drawn has the X-dimension and Y-dimension or x-axis and y-axis as clearly taught by Strasnich in column 16-17. Strasnich discloses adjusting a width or height of a display of the information objects relative to the viewpoint of the user. Strasnich discloses the x-axis being associated with the x dimension of the sales data, the x dimension or horizontal dimension for the x axis being associated with the sales data hierarchy having the parent levels and children levels displayed in the information landscape with the x-axis and y-axis of sales data for the x dimension or the horizontal dimension (see Figure 5B, column 6-8, 16-17, 20).

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Moreover, Strasnick teaches in column 7-8 and 19-22 a user selection of a cell representing the company's total sales (a company cell) and all the sub-cells or children cells representing the departments' sales (the department cells) wherein the department cells emanate from the company cell and also all the sub-cells or children cells representing the salespersons' sales (the salesperson cells) wherein the salespersons' cells emanate from one of the departments' cells.

Strasnick teaches warp navigation in which a navigator warps to the hierarchical dependents or children such as the department cells in the first level in response to the selection by the navigator from the company cell. Strasnick teaches warp navigation in which a navigator warps to the departments' cells in the first level in response to the selection by the navigator from the company cell. Strasnick thus teaches, in response to the user selection of the departments' cells in the first level for display of departments' sales data with respect to the x-axis by a warp navigator from the company cell, display on the graph the departments' sales data or departments' cells in the first level.

Strasnick also teaches warp navigation in which a navigator warps to the salespersons' cells in the second level in response to the selection by the navigator from one of the departments' cells. Strasnick discloses, in response to a user selection of the second level for display of salespersons' sales data with respect to the x-axis from a department cell by the warp navigator, display on the graph the salespersons' sales data or the salespersons' cells in the second level.

Therefore, Strasnick suggests the additional claim limitations set forth in the new claim

One of the ordinary skill in the art is motivated to do this because this allows the multiple dimension visual model being used to clearly present the data set to the user as organized in multiple levels along the multiple axis with each member being labeled (Rao Figs. 13-20; Maguire Figs. 2-7 and Kahn Figs. 1A-6H).

Re Claims 48-49, 56-57, 64:

Strasnick further discloses the claimed limitation of the first dimension comprising a seller dimension associated with a seller hierarchy (column 6-8); each of the plurality of members in the first level of the seller hierarchy representing all sellers within a corresponding geographic region (column 7); and each of the plurality of members in the second level of the seller hierarchy representing all sellers within a corresponding sub-region of a region represented by a member in the first level (column 8). Therefore, Strasnick discloses the claim limitation of “a plurality of levels of hierarchies associated with the top layer hierarchy, and the bottom layer hierarchy associated with each of the plurality of levels of hierarchies.”

Strasnick further discloses the claimed limitation of the first dimension comprising a product dimension associated with a product hierarchy; each of the plurality of members in the first level of the product hierarchy representing all products associated with a corresponding product category; and each of the plurality of members in the second level of the product hierarchy representing all products associated with a corresponding sub-category of a product category represented by a member in the first level (column 22).

Strasnick further discloses the claimed limitation of the first dimension comprising a time dimension associated with a time hierarchy; each of the plurality of members in the first level of the time hierarchy representing all times with a corresponding time period; and each of the plurality of members in the second level of the time hierarchy representing all times within a corresponding sub-period of a time period represented by a member in the first level (column 22).

Strasnick further discloses the claimed limitation of the graph comprising three axes, each axis associated with a dimension of the supply chain, each dimension of supply chain data being associated with a predetermined hierarchical arrangement of supply chain data for the dimension (e.g., figure 1; column 1 and 3).

Therefore, Strasnick discloses the claim limitation of "a top layer hierarchy associated with a third axis dimension, and the bottom layer hierarchy associated with the top layer hierarchy of the third axis dimension."

Re Claims 50-51, 58-59, 65

Strasnick further discloses the claim limitation of displaying a window indicating the particular member specified in the filter selection, and in response to selection the particular member displayed in the window, display on the first axis of the graph a graphical representation of supply chain data for the particular member in addition to the graphical representation of supply chain data for the other members in the level of the particular member (column 8 and 20).

Strasnick and Maguire further disclose the claim limitation of receiving a filter selection specifying a particular member within a level for which a graphical representation of supply

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chain data for the particular member is not to be displayed on the graph; and in response to receiving the filter selection and selection of a level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for each member in the selected level other than the particular member specified in the filter selection (Strasnich column 8 and 20 and Maguire Figs. 2-7).

Therefore, Strasnich and Maguire disclose the claim limitation of "filtering at least a portion of the plurality of levels of hierarchies and in response the filtered levels of hierarchies disappear from the multi-dimensional user interactive graph and the multi-dimensional graphical user interface displays the filtered levels of hierarchies in a separate filtered window."

Strasnich and Maguire further disclose the claimed limitation of the GUI operable to, in response to selection of a particular member of the first level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for the selected particular member (Strasnich column 8 and 20 and Maguire Figs. 2-7).

Therefore, Strasnich and Maguire disclose the claim limitation of "the multi-dimensional graphical user interface allows for a user navigation of the multi-dimensional axes data hierarchy by drilling into the top layer hierarchies associated with each of the axis dimensions."

Re Claims 52-54, 60-62, 66:

Strasnich further discloses the claim limitation of displaying a window indicating the particular member specified in the filter selection, and in response to selection the particular member displayed in the window, display on the first axis of the graph a graphical representation of supply chain data for the particular member in addition to the graphical representation of

supply chain data for the other members in the level of the particular member (Strasnich column 8 and 20 and Maguire Figs. 2-7).

Therefore, Strasnich and Maguire disclose the claim limitation of allowing the function value to be graphed over user selectable aggregations of user input data.

Strasnich and Maguire further disclose the claim limitation of receiving a filter selection specifying a particular member within a level for which a graphical representation of supply chain data for the particular member is not to be displayed on the graph; and in response to receiving the filter selection and selection of a level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for each member in the selected level other than the particular member specified in the filter selection (Strasnich column 8 and 20 and Maguire Figs. 2-7).

Therefore, Strasnich and Maguire disclose the claim limitation of “filtering at least a portion of the multi-dimensional value hierarchies and in response the filtered value hierarchies disappear from the multi-dimensional user interactive graph and the multi-dimensional graphical user interface displays the filtered value hierarchies in a separate filtered legend window.”

Strasnich, Maguire and Kahn further disclose the claimed limitation of the GUI operable to, in response to selection of a particular member of the first level for display of supply chain data with respect to the first axis, display on the graph a graphical representation of supply chain data for the selected particular member and the mathematical combinations can also be displayed (Strasnich column 8 and 20; Maguire Figs. 2-7 and Kahn Figs. 1A-6H).

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Therefore, Strasnick, Maguire and Kahn disclose the claim limitation of "providing for user interaction of complex mathematical combinations of the multi-dimensional axes data hierarchy".

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jin-Cheng Wang whose telephone number is (571) 272-7665. The examiner can normally be reached on 8:00 - 6:30 (Mon-Thu).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on (571) 272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jcw



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